MONTHLY BULLETIN

OF

# THE OBSERVATORY

## AMERICAN UNIVERSITY OF BEIRUT

FORMERLY

## SYRIAN PROTESTANT COLLEGE

BEIRUT, SYRIA

LAT. 33° 54′ 22″ N.

LONG. E. FROM GREENWICH 35° 28′ 10″

APRIL 1923

J. A. BROWN, DIRECTOR

PRINTED AT THE UNIVERSITY PRESS

# APRIL 1923

## METEOROLOGICAL REGISTER

| Date | Barometer reduced to 0°C. Sea level and 45° Latitude | | | | Thermometer Cent. (Corrected) | | | Bright Sunshine hrs. | Rain m.m. |
|---|---|---|---|---|---|---|---|---|---|
| | 8:30 | 2:30 | 8:30 | mean | Max. | Min. | Min.on grass | | |
| 1 | 759.4 | 758.7 | 757.3 | 758.5 | 19.4 | 14.3 | 9.4 | | |
| 2 | 8.8 | 8.8 | 9.7 | 8.1 | 18.3 | 10.2 | 6.6 | | 11.17 |
| 3 | 9.0 | 8.4 | 8.4 | 8.6 | 17.1 | 13.5 | 9.1 | | 8.51 |
| 4 | 8.4 | 8.6 | 8.7 | 8.6 | 18.3 | 12.2 | 8.3 | | 0.76 |
| 5 | 9.5 | 7.7 | 2.4 | 6.5 | 16.7 | 10.7 | 6.2 | | |
| 6 | 3.0 | 2.9 | 4.8 | 3.6 | 20.5 | 13.7 | 8.9 | | |
| 7 | 7.4 | 60.4 | 62.3 | 60.0 | 17.2 | 12.8 | 9.1 | | 10.16 |
| 8 | 64.2 | 3.4 | 4.3 | 4.0 | 18.3 | 9.0 | 4.3 | | |
| 9 | 4.6 | 3.9 | 4.4 | 4.3 | 19.8 | 11.1 | 5.0 | | |
| 10 | 3.7 | 1.1 | 59.4 | 1.4 | 20.4 | 12.4 | 6.8 | | |
| 11 | 55.3 | 52.9 | 4.1 | 54.1 | 21.7 | 14.5 | 8.3 | | |
| 12 | 1.9 | 2.8 | 3.7 | 2.8 | 18.9 | 11.7 | 8.4 | | 17.26 |
| 13 | 4.5 | 5.1 | 6.5 | 5.3 | 20.4 | 13.2 | 9.5 | | |
| 14 | 9.7 | 60.0 | 61.8 | 60.5 | 19.7 | 12.8 | 8.3 | | |
| 15 | 61.3 | 1.1 | 0.9 | 1.1 | 19.4 | 12.4 | 7.7 | | |
| 16 | 1.1 | 1.0 | 0.9 | 1.0 | 20.5 | 13.3 | 7.2 | | |
| 17 | 0.7 | 59.9 | 0.0 | 0.2 | 20.4 | 14.4 | 10.2 | | |
| 18 | 58.5 | 4.0 | 56.8 | 56.4 | 19.5 | 13.0 | 8.9 | | |
| 19 | 4.8 | 4.5 | 6.1 | 5.1 | 19.9 | 11.1 | 9.1 | | 13.96 |
| 20 | 7.8 | 8.8 | 60.2 | 8.9 | 21.1 | 11.6 | 7.9 | | 11.93 |
| 21 | 61.8 | 62.2 | 3.6 | 62.5 | 19.4 | 14.4 | 10.1 | | |
| 22 | 3.8 | 3.4 | 4.1 | 3.8 | 20.7 | 12.9 | 8.5 | | |
| 23 | 2.1 | 4.1 | 4.1 | 3.4 | 20.5 | 12.9 | 9.1 | | |
| 24 | 3.2 | 3.2 | 3.7 | 3.4 | 21.3 | 15.0 | 10.5 | | |
| 25 | 3.8 | 3.9 | 4.4 | 4.0 | 23.3 | 16.2 | 11.1 | | |
| 26 | 5.4 | 4.9 | 4.5 | 4.9 | 21.7 | 16.4 | 11.0 | | |
| 27 | 3.9 | 4.1 | 3.8 | 4.3 | 25.0 | 15.5 | 11.1 | | |
| 28 | 4.2 | 3.2 | 2.5 | 3.3 | 24.9 | 16.6 | 11.8 | | |
| 29 | 1.3 | 0.8 | 0.6 | 0.9 | 26.4 | 18.3 | 13.3 | | |
| 30 | 0.3 | 59.4 | 58.6 | 59.4 | 27.7 | 17.2 | 12.2 | | |
| 31 | | | | | | | | | |
| | 760.1 | 759.8 | 760.1 | 760.0 | 20.6 | 13.1 | 8.9 | | 73.75 |

BAROMETER

| | | |
|---|---|---|
| Maximum | 765.4 | on 26th |
| Minimum | 751.9 | on 12th |

THERMOMETER

| | | |
|---|---|---|
| Maximum | 27.7 | on 30th |
| Minimum | 9.0 | on 8th |
| Minimum on grass | 4.3 | on 8th |

RAINFALL

Maximum 17.26 mm. on 12th

Number of days with rain 7 thunderstorms 0 fog 0 gale 1

# APRIL 1923

## METEOROLOGICAL REGISTER

| Date | Dry Bulb Cent. (Corrected) | | | | Wet Bulb Cent. (Corrected) | | | Elasticity of Vapour mm. | | | | Relative Moisture per cent. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 8:30 | 2:30 | 8:30 | mean | 8:30 | 2:30 | 8:30 | 8:30 | 2:30 | 8:30 | mean | 8:30 | 2:30 | 8:30 | mean |
| 1 | 16.7 | 19.2 | 14.6 | 16.8 | 11.1 | 14.6 | 13.5 | 10.0 | 9.7 | 10.8 | 10.2 | 72 | 59 | 88 | 73 |
| 2 | 16.6 | 17.7 | 15.5 | 16.6 | 14.0 | 14.6 | 12.6 | 10.3 | 10.4 | 9.2 | 10.0 | 74 | 68 | 70 | 71 |
| 3 | 14.8 | 14.1 | 13.5 | 14.1 | 13.5 | 12.9 | 12.8 | 10.7 | 10.3 | 10.5 | 10.5 | 85 | 68 | 91 | 87 |
| 4 | 16.5 | 17.3 | 15.4 | 16.4 | 13.8 | 14.1 | 12.5 | 10.1 | 9.9 | 9.1 | 9.7 | 73 | 68 | 70 | 70 |
| 5 | 15.6 | 16.0 | 15.4 | 15.7 | 12.4 | 12.1 | 13.5 | 8.9 | 8.4 | 10.4 | 9.2 | 68 | 62 | 80 | 70 |
| 6 | 16.8 | 20.4 | 15.5 | 17.6 | 14.1 | 16.0 | 14.1 | 10.2 | 10.8 | 11.1 | 10.7 | 72 | 63 | 85 | 73 |
| 7 | 16.3 | 16.7 | 12.4 | 15.1 | 12.6 | 10.7 | 9.0 | 8.8 | 7.2 | 6.8 | 7.6 | 64 | 51 | 64 | 60 |
| 8 | 15.2 | 17.7 | 12.4 | 15.1 | 9.7 | 13.4 | 10.2 | 6.5 | 9.1 | 8.1 | 7.9 | 50 | 60 | 74 | 61 |
| 9 | 17.6 | 18.8 | 16.2 | 17.5 | 13.3 | 14.3 | 13.5 | 9.0 | 9.5 | 9.9 | 9.5 | 60 | 59 | 73 | 64 |
| 10 | 17.0 | 18.3 | 17.1 | 17.5 | 14.4 | 15.4 | 14.9 | 10.6 | 11.3 | 11.3 | 11.1 | 73 | 72 | 78 | 74 |
| 11 | 19.8 | 20.4 | 16.6 | 18.9 | 14.9 | 17.0 | 14.4 | 9.9 | 12.2 | 9.9 | 10.7 | 58 | 68 | 73 | 66 |
| 12 | 13.7 | 18.2 | 16.6 | 16.2 | 13.0 | 14.8 | 14.4 | 10.7 | 10.5 | 11.0 | 10.7 | 92 | 68 | 78 | 79 |
| 13 | 17.7 | 19.7 | 14.9 | 17.4 | 14.9 | 16.2 | 13.1 | 10.9 | 11.5 | 10.2 | 10.7 | 73 | 67 | 81 | 74 |
| 14 | 17.2 | 19.9 | 14.9 | 17.3 | 14.9 | 15.8 | 13.9 | 11.2 | 10.8 | 11.0 | 11.0 | 73 | 63 | 87 | 74 |
| 15 | 17.0 | 19.0 | 15.6 | 17.2 | 14.5 | 15.6 | 14.3 | 10.7 | 11.0 | 11.3 | 11.0 | 74 | 67 | 86 | 76 |
| 16 | 19.4 | 19.3 | 16.9 | 18.5 | 14.4 | 17.1 | 14.9 | 9.4 | 13.0 | 11.3 | 11.2 | 56 | 78 | 79 | 71 |
| 17 | 18.3 | 20.1 | 15.6 | 18.0 | 16.2 | 16.7 | 13.6 | 12.0 | 11.9 | 10.0 | 11.3 | 74 | 68 | 76 | 73 |
| 18 | 18.1 | 17.9 | 15.7 | 17.2 | 14.6 | 16.2 | 14.2 | 10.3 | 12.0 | 11.0 | 11.1 | 67 | 82 | 83 | 77 |
| 19 | 12.2 | 15.4 | 15.1 | 14.2 | 11.1 | 13.4 | 13.2 | 8.3 | 10.2 | 10.2 | 9.6 | 90 | 78 | 80 | 83 |
| 20 | 17.2 | 19.4 | 15.9 | 17.5 | 14.6 | 15.6 | 13.7 | 10.7 | 10.8 | 10.4 | 10.6 | 73 | 64 | 77 | 71 |
| 21 | 17.1 | 19.9 | 15.5 | 17.5 | 13.5 | 15.2 | 13.8 | 9.4 | 10.1 | 10.6 | 10.0 | 66 | 58 | 82 | 69 |
| 22 | 18.5 | 20.1 | 15.5 | 18.0 | 16.2 | 16.2 | 14.4 | 12.2 | 11.8 | 11.5 | 11.8 | 77 | 68 | 88 | 78 |
| 23 | 18.7 | 20.3 | 17.1 | 18.7 | 16.1 | 16.3 | 15.7 | 11.8 | 11.3 | 12.4 | 11.8 | 74 | 63 | 85 | 74 |
| 24 | 19.1 | 20.6 | 18.2 | 19.3 | 17.6 | 17.7 | 17.0 | 13.9 | 13.0 | 13.6 | 13.5 | 84 | 72 | 88 | 71 |
| 25 | 22.3 | 22.7 | 19.2 | 21.4 | 18.9 | 17.2 | 16.3 | 13.8 | 13.3 | 11.9 | 12.3 | 69 | 54 | 72 | 65 |
| 26 | 20.7 | 21.4 | 18.3 | 20.1 | 17.3 | 18.2 | 18.2 | 12.4 | 13.3 | 15.4 | 13.7 | 68 | 70 | 98 | 79 |
| 27 | 22.4 | 23.6 | 19.3 | 21.8 | 17.5 | 19.3 | 17.9 | 11.8 | 13.8 | 13.9 | 13.2 | 58 | 63 | 83 | 68 |
| 28 | 21.1 | 24.6 | 21.1 | 22.3 | 19.2 | 19.9 | 16.6 | 15.1 | 14.0 | 11.2 | 13.4 | 81 | 61 | 60 | 67 |
| 29 | 22.1 | 26.0 | 20.2 | 22.8 | 16.4 | 20.1 | 19.4 | 10.5 | 13.6 | 16.1 | 13.4 | 53 | 55 | 91 | 66 |
| 30 | 22.6 | 24.8 | 23.8 | 23.7 | 20.0 | 21.2 | 19.0 | 15.5 | 16.1 | 13.4 | 15.0 | 76 | 70 | 60 | 69 |
| 31 | | | | | | | | | | | | | | | |
| | 17.9 | 19.9 | 16.4 | 18.0 | 14.5 | 15.9 | 14.5 | 10.9 | 11.3 | 11.1 | 11.1 | 70.9 | 66.2 | 79.0 | 72.0 |

Height of Barometer above sea level : 33.7 meters.

„ „ Thermometers above ground :

Dry and wet 1.55 m. ; Max. 1.75 m. ; Min. 1.70 m.

Height of Rain Guage : above ground 0.56 m. ; above sea level 30.31 m.

Gravity Correction −0.79mm.

Time of readings according to Standard Time of 30th E. Meridian.

# APRIL 1923

## METEOROLOGICAL REGISTER

| Date | Clouds. Clear—0 Overcast—10 | | | | Direction and force of Wind 0—10 | | | Wind per day | Sea | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| | 8:30 | 2:30 | 8:30 | mean | 8:30 | 2:30 | 8:30 | Km. | | |
| 1 | 10s cu | 7 | 10n | 9.0 | 0 | 0 | 0 | 105.6 | calm | few drops p.m. |
| 2 | 3 | 7cu n | 10n | 6.7 | 0 | 1 | 2 | 152.9 | v. slight | |
| 3 | 10n | 10n | 10n | 10 | 3 | 2 | 0 | 213.0 | ,, | |
| 4 | 2 | 0 | 0 | 0.7 | 1 | 2 | 0 | 159.9 | ,, | |
| 5 | 10s | 10s | 10s | 10 | 0 | 1n | 0 | 320.2 | calm | |
| 6 | 10n s | 8s | 3n | 7.0 | 0 | 1w | 1 | 318.3 | ,, | few drops a.m. |
| 7 | 2 | 7cu n | 0 | 3.0 | 3 | 3ne | 0 | 233.0 | slight | |
| 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 195.2 | calm | |
| 9 | 0 | 0 | 0 | 0 | 0 | 1n | 1ne | 361.5 | ,, | |
| 10 | 3s | 0 | 0 | 1.0 | 1ne | 1ne | 0 | 335.1 | ,, | |
| 11 | 0 | 0 | 3s | 1.0 | 0 | 0 | 2 | 130.3 | ,, | |
| 12 | 10n | 6 | 10n s | 8.7 | 1 | 2nw | 2 | 230.1 | v. slight | |
| 13 | 2 | 2 | 0 | 1.3 | 2 | 1 | 0 | 174.1 | ,, | |
| 14 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 133.6 | calm | |
| 15 | 9s | 9s cu | 0 | 6.0 | 0 | 1 | 0 | 98.4 | ,, | |
| 16 | 0 | 0 | 0 | 0 | 0 | 1ne | 0 | 127.6 | ,, | |
| 17 | 1 | 0 | 0 | 0.3 | 1 | 2 | 0 | 154.0 | ,, | |
| 18 | 0 | 10s n | 10n | 6.7 | 1 | 1 | 0 | 68.2 | ,, | few drops p.m. |
| 19 | 10n | 10n | 10n | 10 | 4 | 3 | 2 | 175.3 | slight | gale & hail, |
| 20 | 1 | 0 | 9cu n | 3.3 | 0 | 0 | 1 | 164.1 | ,, | a.m. & eve. |
| 21 | 1 | 0 | 1 | 0.7 | 2 | 2 | 0 | 164.1 | v. slight | few drops a.m. |
| 22 | 2s | 0 | 0 | 0.7 | 1 | 1 | 0 | 125.2 | calm | |
| 23 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 153.2 | ,, | |
| 24 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 199.0 | ,, | |
| 25 | 0 | 0 | 0 | 0 | 0 | 1ne | 0 | 109.3 | ,, | |
| 26 | 0 | 0 | 0 | 0 | 2n | 2n | 0 | 127.6 | v. slight | dew |
| 27 | 0 | 9s | 5s | 4.7 | 0 | 0 | 0 | 39.1 | calm | |
| 28 | 0 | 0 | 1s | 0.3 | 1 | 0 | 0 | 53.3 | ,, | |
| 29 | 10cu ci | 0 | 0 | 3.3 | 0 | 0 | 0 | 77.6 | ,, | dew |
| 30 | 0 | 0 | 9s | 3.0 | 0 | 1n | 0 | 90.6 | ,, | |
| 31 | | | | | | | | | | |
| | | | | 3.2 | | | | 166.3 | | |

### Number of Daily Wind Observations

| Time | N | NE | E | SE | S | SW | W | NW | Calm |
|---|---|---|---|---|---|---|---|---|---|
| 8:30 | 1 | 1 | 0 | 0 | 0 | 13 | 0 | 0 | 15 |
| 2:30 | 4 | 4 | 0 | 0 | 0 | 12 | 1 | 1 | 8 |
| 8:30 | 0 | 1 | 0 | 0 | 0 | 6 | 0 | 0 | 23 |
| Totals | 5 | 6 | 0 | 0 | 0 | 31 | 1 | 1 | 46 |

N.B.—Cloud numbers without letters are all cu.

Wind ,, ,, ,, ,, ,, sw.